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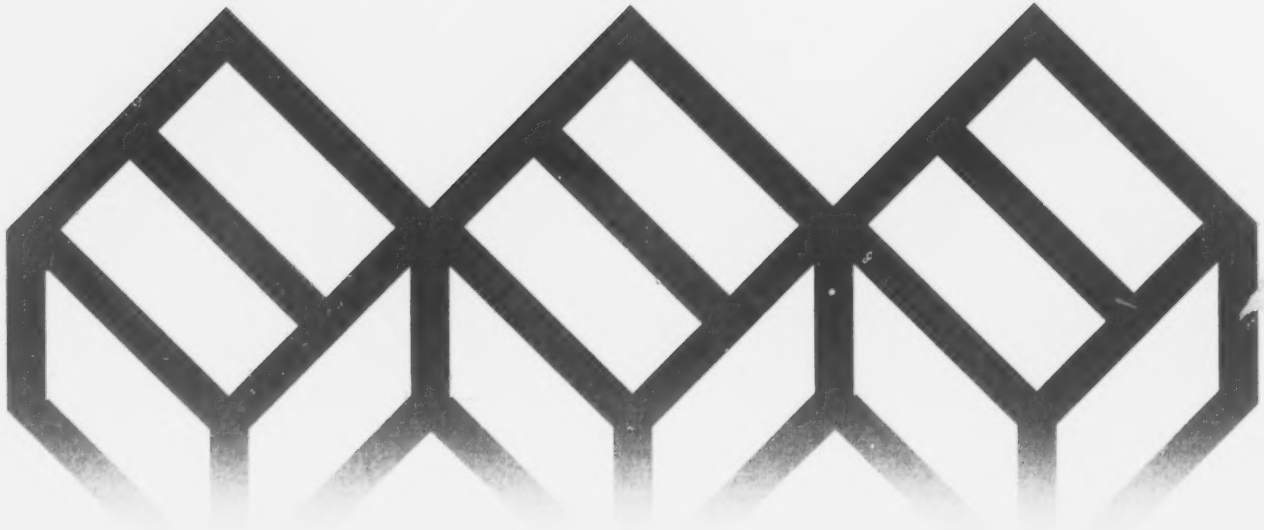
FIBRE BOX INDUSTRY ANNUAL REPORT 1989



FIBRE BOX ASSOCIATION

The Fibre Box Association

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In 1990, the Fibre Box Association achieves 50 years of continuous representation of, and service to , the United States manufacturers of corrugated and solid fibre shipping containers and products.

One of the Association's cornerstone services to its members is the monthly compiling and reporting of industry data to assist in the management of their businesses. Since 1940, FBA has published the Annual Report of industry statistics that provides the government and the public, as well as the industry, with an accurate reflection of meaningful corrugated industry data.

The Fibre Box Association's membership is composed of companies that currently represent more than 80% of the aggregate domestic shipments. The 110 members are shown on the back page of this report and operate 642 corrugated manufacturing facilities throughout the United States.

Other services provided by FBA to the membership include: government relations, labor contract reporting, technical studies, issue seminars/workshops, publications, forecasting and end-use market analysis. Programs are also conducted to meet the unique needs of the three segments of the corrugated industry: independent corrugators, independent sheet plants and integrated companies.

The 1989 Annual Report of the Fibre Box Industry is the 49th in the series published by the Fibre Box Association (FBA).

The Annual Report is derived from data submitted by member companies, combined with data from a voluntary census of non-member companies and expanded to provide the most accurate data on the aggregate domestic industry. All shipment data represents finished products; sales of corrugated sheets to sheet plants, who produce finished products, are deducted.

Additional information for this report has been provided by the American Paper Institute and the Bureau of Labor Statistics of the U.S. Department of Labor.

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Statistical Highlights

Shipments
Total industry shipments of corrugated and solid fibre products increased by 1.6% to 313.4 billion square feet establishing a new record.

The value of shipments was $16.2 billion, 3.4% greater than 1988.

All areas, except the Northeast, shared in the record shipment levels.

Shipments from corrugator plants increased by 1.1% while greater growth occurred at sheet plants, +4.7%. Sheet plants continue to increase their share of the aggregate market rising to 14.2%.

A record number of companies participated in the FBA corrugated end use study in 1989 - representing 62.9% of all shipments compared to 57.7% in 1988. Significant changes occurred with increases in the food/beverage industry and continuation of a four year trend for increase in the paper/printing industries.

Production
The mix of corrugated board types remains virtually unchanged from recent years. Single wall continues to represent 91% of all board produced.

The average corrugator plant production in 1989 was 522 million square feet, an increase of 1.4%

Since 1982, the average basis weight of combined corrugated board has gradually increased to 139.6 pounds per thousand square feet in 1989.

Containerboard Production, Consumption and Inventory
23.7 million tons of containerboard was produced by paperboard mills to supply linerboard, medium and filler for the 1989 production of corrugated and solid fibre products in the United States.

Linerboard continues to represent 68% of all containerboard consumed at corrugator plants.

Total containerboard inventory levels shifted from the end of 1988 to the end of 1989, from 5.4 to 5.9 weeks of supply.

Price Index
To provide a clear historical perspective, the FBA statistical program policy was revised in 1989 to return to the 1967 base year for the Bureau of Labor Statistics Producer Price Index and the compiled National Corrugated Price Index. Therefore, the data in this report, uses the 1967 base to compare the historical price trends.

In 1989, the corrugated index increased by 2.1% while the overall producer index increased by 5.0%.

Hours, Earnings and Productivity
Industry overall productivity of 2,200 square feet per production man-hour establishes a new record. The average payroll cost was $5.17 per 1,000 square feet.

Production related employees in the industry increased to 72,200, the highest level since 1973. The average employee hours per week were 39.0 with average hourly earnings of $10.92.

Plants
The total number of industry plants in operation during 1989 was 1,566. 642 were corrugators and 924 were sheet plants, each type increasing by two from 1988.

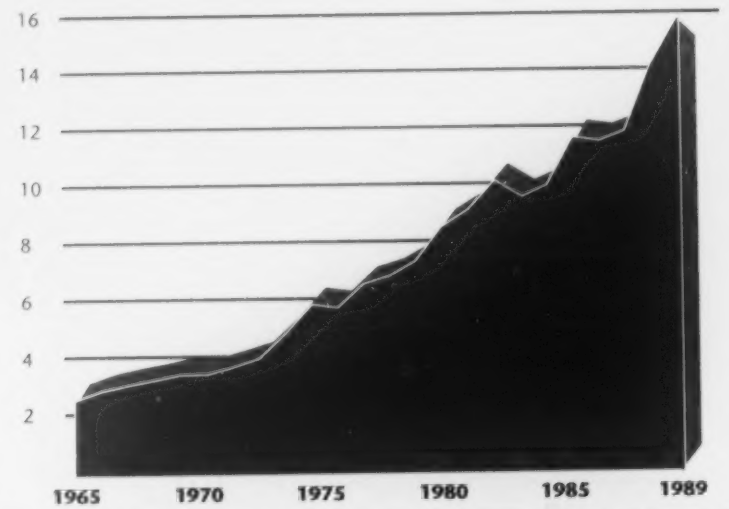
Corrugated industry plants facilities exist in each of the 48 contiguous states, except Wyoming. California had the largest number with 133 plants.

Industry Value of Shipments

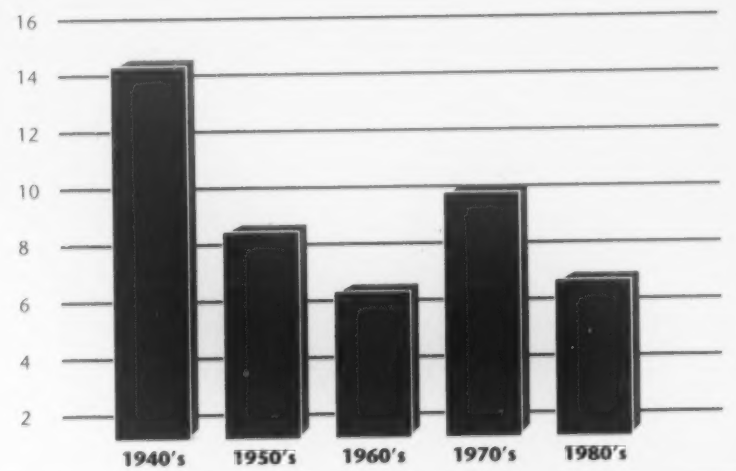
Dollars

Year	Total	Corrugated	Solid Fibre	Year to Year Growth
1940	$ 231,082,800	$ 211,339,000	$19,743,800	---
1950	1,054,502,400	995,454,100	59,048,300	---
1960	1,791,171,100	1,746,525,600	44,645,500	---
1965	2,406,758,600	2,367,541,900	39,216,700	+ 8.7
1966	2,730,785,600	2,673,737,100	57,048,500	+ 13.5
1967	2,814,803,600	2,761,635,200	53,168,400	+ 3.1
1968	3,043,600,900	2,990,444,200	53,156,700	+ 8.1
1969	3,320,521,800	3,268,934,500	51,587,300	+ 9.1
1970	3,341,044,100	3,298,364,600	42,679,500	+ 0.6
1971	3,463,680,200	3,422,262,100	41,418,100	+ 3.7
1972	3,959,924,500	3,919,862,900	40,061,600	+ 14.3
1973	4,862,056,300	4,815,486,600	46,569,700	+ 22.8
1974	5,792,984,900	5,742,301,300	50,683,600	+ 19.1
1975	5,623,765,200	5,578,612,500	45,152,700	- 2.9
1976	6,443,938,300	6,395,870,800	48,067,500	+ 14.6
1977	6,741,744,100	6,691,170,000	50,574,100	+ 4.6
1978	7,260,097,300	7,204,311,000	55,786,300	+ 7.7
1979	8,407,894,000	8,344,624,600	63,269,400	+ 15.8
1980	9,075,381,800	9,010,411,600	64,970,200	+ 7.9
1981	10,019,521,200	9,956,771,000	62,750,200	+ 10.4
1982	9,343,619,900	9,278,989,700	64,630,200	- 6.7
1983	9,845,258,200	9,778,198,700	67,059,500	+ 5.4
1984	11,567,050,900	11,491,431,700	75,619,200	+ 17.5
1985	11,486,830,500	11,413,175,600	73,654,900	- 0.7
1986	11,753,044,200	11,673,330,200	79,714,000	+ 2.3
1987	14,097,324,600	14,014,909,400	82,415,200	+ 19.9
1988	15,627,005,100	15,538,736,900	88,268,200	+ 10.9
1989	16,157,184,000	16,066,698,700	90,485,300	+ 3.4

Total Value — Billions of Dollars

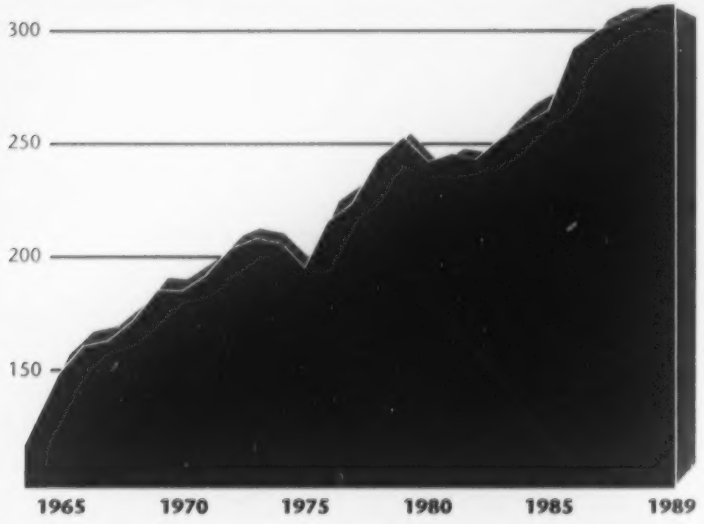


Average Annual Growth Rates by Decade — Percent

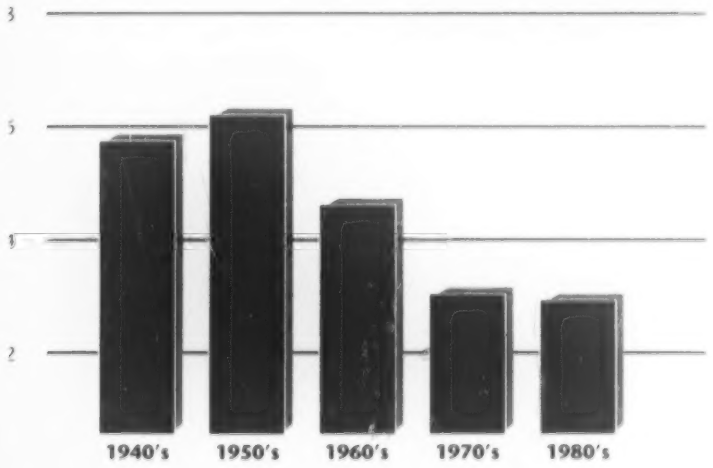


Industry Shipments

Total Volume — Billions of Square Feet



Average Annual Growth Rates by Decade — Percent

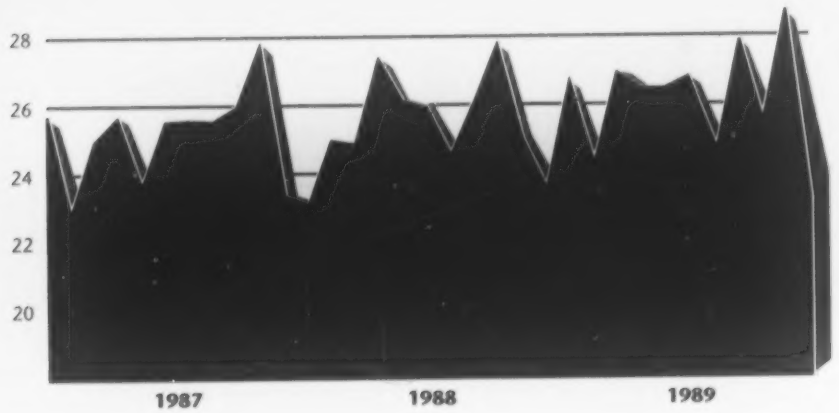


Year	Total	Corrugated	Solid Fibre	Year to Year Growth
1940	36.111	33.847	2.264	---
1950	78.393	76.022	2.371	---
1960	108.931	107.676	1.255	---
1965	148.471	147.393	1.078	+ 8.2
1966	160.452	158.997	1.455	+ 8.1
1967	162.596	161.212	1.384	+ 1.3
1968	173.814	172.361	1.453	+ 6.9
1969	185.652	184.280	1.372	+ 6.8
1970	184.865	183.761	1.104	- 0.4
1971	191.832	190.756	1.076	+ 3.8
1972	211.926	210.880	1.046	+ 10.5
1973	228.052	226.984	1.068	+ 7.6
1974	216.072	215.119	.953	- 5.3
1975	194.329	193.573	.756	- 10.1
1976	216.371	215.565	.806	+ 11.3
1977	227.198	226.360	.838	+ 5.0
1978	243.898	242.999	.899	+ 7.4
1979	250.643	249.701	.942	+ 2.8
1980	241.377	240.490	.887	- 3.7
1981	246.152	245.331	.821	+ 2.0
1982	235.185	234.306	.879	- 4.5
1983	252.539	251.618	.921	+ 7.4
1984	267.547	266.565	.982	+ 5.9
1985	267.453	266.490	.963	- 0.04
1986	283.921	282.852	1.069	+ 6.2
1987	297.828	296.818	1.010	+ 4.9
1988	308.509	307.464	1.045	+ 3.6
1989	313.398	312.343	1.055	+ 1.6

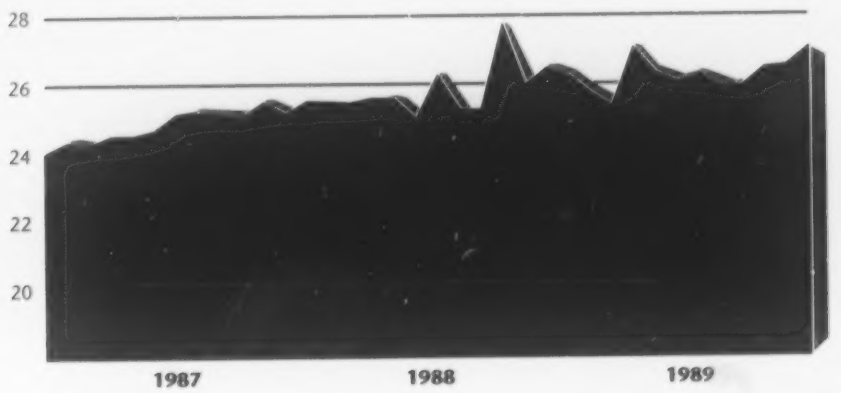
Industry Shipments by Month & Quarter

Billions of Square Feet

Shipments by Month — **Billions of Square Feet**



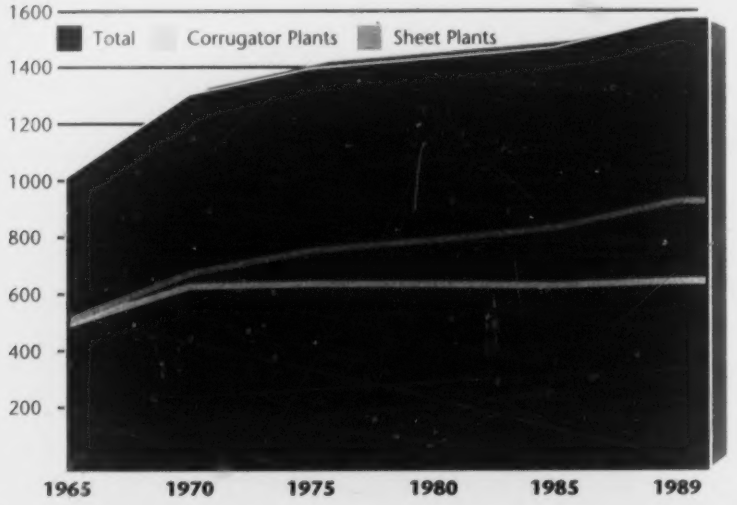
Seasonally Adjusted Shipments by Month — **Billions of Square Feet**



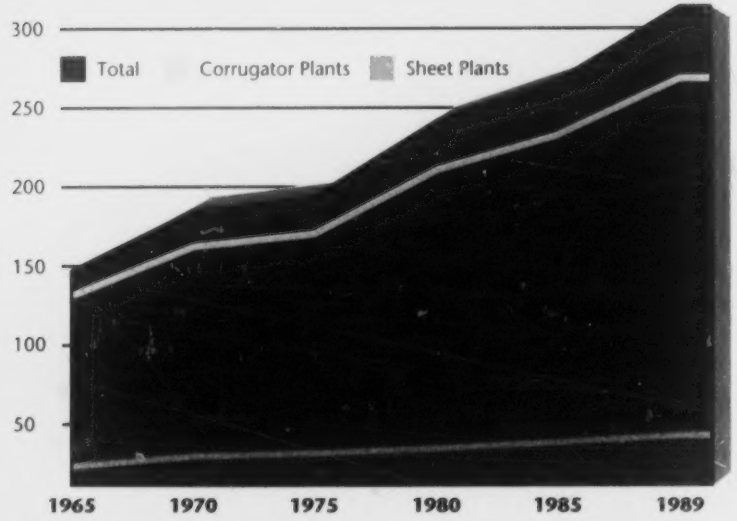
	Jan	Feb	Mar	1st Qtr	Apr	May	Jun	2nd Qtr	Jul	Aug	Sep	3rd Qtr	Oct	Nov	Dec	4th Qtr	Year
1987																	
Average Week	5.882	5.708	5.648	5.745	6.103	5.918	5.793	5.936	5.777	5.966	6.166	5.967	6.308	6.147	5.790	6.088	5.933
Actual	24.705	22.832	24.851	72.388	25.631	23.670	25.490	74.790	25.419	25.058	25.898	76.375	27.755	23.357	23.161	74.274	297.827
Seasonally Adjusted	24.046	24.375	24.264	72.803	24.436	24.866	24.638	73.903	25.140	25.212	25.131	75.469	25.054	25.468	25.164	75.620	---
1988																	
Average Week	6.240	5.914	5.941	6.026	6.533	5.961	5.891	6.118	6.140	5.889	6.227	6.079	6.641	6.262	6.198	6.374	6.146
Actual	24.961	24.839	27.327	77.127	26.132	25.036	25.920	77.089	24.560	27.091	26.153	77.804	27.890	25.047	23.551	76.488	308.509
Seasonally Adjusted	25.481	25.465	25.437	77.593	25.769	25.503	24.978	76.175	26.217	25.246	25.291	76.881	26.610	25.945	26.438	77.890	---
1989																	
Average Week	6.333	6.068	6.118	6.174	6.614	6.121	6.080	6.261	6.488	6.051	6.360	6.285	6.587	6.337	5.800	6.253	6.243
Actual	26.600	24.271	26.919	77.789	26.458	26.934	26.753	80.144	24.654	27.837	25.441	77.931	28.982	25.349	23.202	77.532	313.398
Seasonally Adjusted	26.215	25.727	25.324	78.298	27.098	26.331	26.022	79.108	26.289	25.885	25.905	77.030	26.424	26.252	27.001	78.969	---
Seasonal Adjustment	1.0147	0.9434	1.0630	99.4	0.9764	1.0229	1.0281	101.3	0.9378	1.0754	0.9821	101.2	1.0968	0.9656	0.8593	98.2	---

Industry Shipments by Type of Plant

Number of Plants



Shipments by Type of Plant Billions of Square Feet

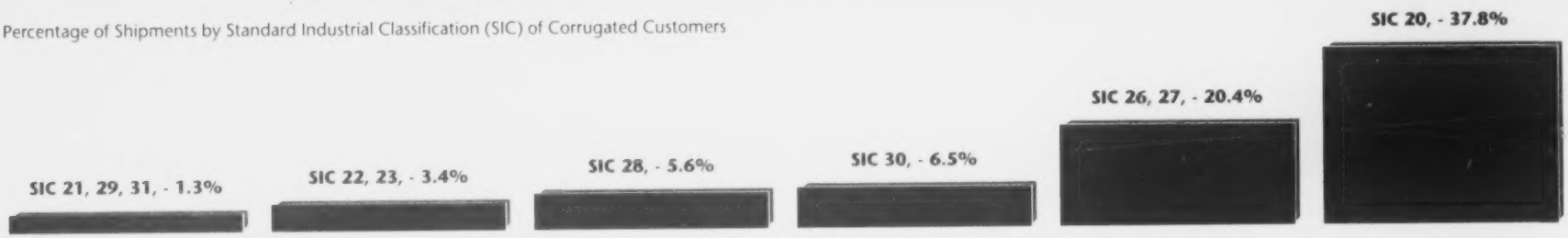


Year	Total		Corrugators			Sheet Plants		
	Billions of Square Feet	Number of Plants	Billions of Square Feet	Percent of Total	Number of Plants	Billions of Square Feet	Percent of Total	Number of Plants
1940	36.111	355	33.157	91.8	242	2.954	8.2	113
1950	78.393	481	73.986	94.4	304	4.407	5.6	177
1960	108.931	812	98.991	90.9	428	9.940	9.1	384
1965	148.471	1,011	130.983	88.2	498	17.488	11.8	513
1966	160.452	1,065	140.946	87.8	519	19.506	12.2	546
1967	162.596	1,098	143.200	88.1	548	19.396	11.9	550
1968	173.814	1,184	152.497	87.7	578	21.317	12.3	606
1969	185.652	1,236	163.232	87.9	604	22.420	12.1	632
1970	184.865	1,294	163.230	88.3	623	21.635	11.7	671
1971	191.832	1,323	168.870	88.0	615	22.962	12.0	708
1972	211.926	1,324	184.452	87.0	614	27.474	13.0	710
1973	228.052	1,330	198.646	87.1	607	29.406	12.9	723
1974	216.072	1,358	189.015	87.5	619	27.057	12.5	739
1975	194.329	1,385	170.635	87.8	634	23.694	12.2	751
1976	216.371	1,427	188.694	87.2	645	27.677	12.8	782
1977	227.198	1,450	197.311	86.8	654	29.887	13.2	796
1978	243.898	1,449	211.661	86.8	654	32.237	13.2	795
1979	250.643	1,460	217.105	86.6	649	33.538	13.4	811
1980	241.377	1,422	210.868	87.4	633	30.509	12.6	789
1981	246.152	1,427	214.971	87.3	631	31.181	12.7	796
1982	235.185	1,376	206.799	87.9	623	28.386	12.1	753
1983	252.539	1,370	221.652	87.8	614	30.887	12.2	756
1984	267.547	1,429	233.635	87.3	615	33.912	12.7	814
1985	267.453	1,460	233.518	87.3	630	33.935	12.7	830
1986	283.921	1,495	247.007	87.0	643	36.914	13.0	852
1987	297.828	1,576	257.838	86.6	639	39.990	13.4	937
1988	308.509	1,562	266.119	86.3	640	42.390	13.7	922
1989	313.398	1,566	269.011	85.8	642	44.387	14.2	924

Shipments by End Use Industry

Shipments to Nondurable Goods Industries — **75.0% Share of Total Shipments**

Percentage of Shipments by Standard Industrial Classification (SIC) of Corrugated Customers



MAJOR SIC GROUP*	MANUFACTURING INDUSTRIES	1987 - 53.7% 20 Companies - 345 Plants	1988 - 57.7% 20 Companies - 383 Plants	1989 - 62.9% 25 Companies - 419 Plants
20	Food and Kindred Products (except 201,202,203,205,206,208 and Fresh Fruits and Vegetables)	8.7%	8.8%	9.0%
201	Meat Products	6.1	6.0	7.3
202	Dairy Products	2.6	2.6	2.4
203	Canning and Preserving Fruits, Vegetables, and Sea Foods	5.3	5.2	5.2
205	Bakery Products	2.0	1.9	2.1
206	Confectionary and Related Products	1.3	1.3	1.3
208	Beverages	4.1	4.4	4.4
**950	Fresh Fruits and Vegetables	6.1	5.3	6.1
		36.2%	35.5%	37.8%
21	Tobacco	.4	.4	.3
22	Textile Mill Products (except 227)	1.9	2.1	1.8
227	Floor Covering Mills	.1	.1	.2
		2.0	2.2	2.0
23	Apparel and Other Finished Products made from Fabrics and Similar Materials	1.5	2.6	1.4
26	Paper and Allied Products	16.8	18.3	19.0
27	Printing, Publishing, and Allied Industries (except 273)	1.1	1.1	1.0
273	Books	.3	.3	.3
		1.4	1.4	1.4
28	Chemicals and Allied Products (except 282,283,284 and 285)	1.2	1.2	1.3
282	Plastics Materials and Synthetic Resins, Synthetic Rubber, Synthetic and Other Man-Made Fibers, Except Glass	1.3	1.3	1.3
283	Drugs	.8	.7	.8
284	Soap, Detergents and Cleaning Preparations, Perfumes, Cosmetics and Other Toilet Preparations	2.7	2.9	2.8
285	Paints, Varnishes, Lacquers, Enamels and Allied Products	.3	.3	.3
		6.3	6.4	6.5
29	Petroleum Refining and Related Industries (except 295)	.8	.7	.7
295	Paving and Roofing Materials	.0	.0	.1
		.8	.7	.8
30	Rubber and Miscellaneous Plastics Products (except 307)	1.2	1.1	1.2
307	Miscellaneous Plastics Products	5.3	4.9	4.4
		6.5	6.0	5.6
31	Leather and Leather Products	.3	.2	.2
	Sub-Total, Nondurable Goods	72.2	73.7	75.0

*Standard Industrial Classification. **This number was arbitrarily assigned; not in accordance with Standard Classification Manual.
The sample as reported here, based on the number of companies indicated in the column headings, will not conform exactly to a complete analysis of sales. The percentage shown should be considered as indicators and not exact proportions. Differences in percentages from year to year can be caused by changes in the list of participating companies. Shipments to sheet plants and jobbers are not included. Companies included in the tabulation operate plants in all areas of the country.

Shipments by End Use Industry

Shipments to Durable Goods Industries — 24.6% Share of Total Shipments

Percentage of Shipments by Standard Industrial Classification (SIC) of Corrugated Customers

MAJOR SIC GROUP*	MANUFACTURING INDUSTRIES	1987 - 53.7% 20 Companies - 345 Plants	1988 - 57.7% 20 Companies - 383 Plants	1989 - 62.9% 25 Companies - 415 Plants
24	Lumber and Wood Products, Except Furniture	1.2%	1.2%	1.1%
25	Furniture and Fixtures (except 251)	1.3%	1.1%	1.3%
251	Household Furniture	1.3 — 2.6	1.3 — 2.4	1.2 — 2.5
32	Stone, Clay, and Glass Products (except 322,326,and 329)	.7	.7	.7
322	Glass and Glassware, Pressed or Blown	5.8	5.1	4.4
326	Pottery and Related Products	.2 — 7.1	.3 — 6.4	.2 — 5.6
329	Abrasive, Asbestos and Misc. Nonmetallic Mineral Products	.4	.3	.3
33	Primary Metal	.5	.5	.5
34	Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment (except 341)	2.3	2.0	2.0
341	Metal Cans	.3 — 2.6	.3 — 2.3	.2 — 2.2
35	Machinery, Except Electrical (except 358)	1.5	1.3	1.1
358	Service Industry Machines	.3 — 1.8	.4 — 1.7	.3 — 1.4
36	Electrical Machinery, Equipment and Supplies (except 363,364,365,and 366-367)	.8	.8	.7
363	Household Appliances	1.7	1.6	1.6
364	Electric Lighting and Wiring Equipment	.7 — 3.7	.7 — 3.8	.7 — 3.6
365	Radio and TV Receiving Sets, Except Communication Types	.3	.3	.3
366-367	Communication Equipment and Electronic Components and Accessories	.2	.4	.3
37	Transportation Equipment (except 371)	.2	.3	.2
371	Motor Vehicles and Motor Vehicle Equipment	1.2 — 1.4	1.0 — 1.3	1.0 — 1.2
38	Professional, Scientific, and Controlling Instruments; Photographic and Optical Goods; Watches and Clocks	.6	.7	.7
39	Miscellaneous Manufacturing (except 394)	4.5	4.6	4.8
394	Toys, Amusement, Sporting and Athletic Goods	.8 — 5.3	.9 — 5.5	1.0 — 5.8
	Sub-Total, Durable Goods	26.8	25.8	24.6
	Sub-Total, Durable Goods	26.8	25.8	24.6
	Sub-Total, Nondurable Goods	72.2	73.7	75.0
42	Motor Freight Transportation and Warehousing	.9	.4	.4
90	Government	.1	.1	.0
	TOTAL	100.0%	100.0%	100.0%

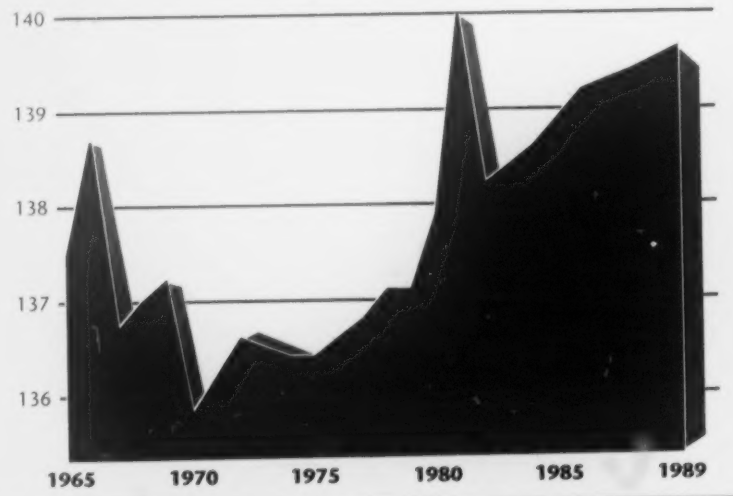
*Standard Industrial Classification

Industry Corrugated Production by Type of Board

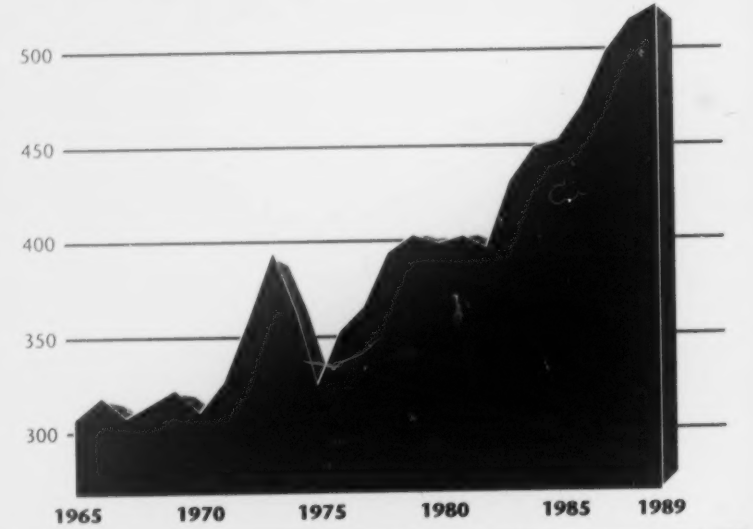
Billions of Square Feet

Year	Single Face	% of Total	Single Wall	% of Total	Double Wall	% of Total	Triple Wall	% of Total	Total
1940	1.139	3.2%	33.660	94.5%	.819	2.3%	---	---	35.618
1950	1.880	2.4	71.740	92.6	3.860	5.0	---	---	77.480
1960	1.648	1.5	104.206	93.1	6.063	5.4	---	---	111.917
1965	1.400	0.9	141.941	92.4	10.231	6.7	---	---	153.572
1966	1.594	1.0	151.593	91.7	12.025	7.3	---	---	165.212
1967	1.569	0.9	154.918	92.1	11.807	7.0	---	---	168.294
1968	1.549	0.9	165.937	91.8	13.278	7.3	---	---	180.764
1969	1.592	0.8	177.426	91.7	14.571	7.5	---	---	193.589
1970	1.548	0.8	177.087	91.9	14.105	7.3	---	---	192.740
1971	1.461	0.7	183.775	91.7	15.119	7.6	---	---	200.355
1972	1.567	0.7	200.902	91.3	17.641	8.0	---	---	220.110
1973	1.490	0.6	216.841	90.9	20.196	8.5	---	---	238.527
1974	1.492	0.7	203.449	90.8	19.154	8.5	---	---	224.095
1975	1.166	0.6	186.172	91.6	15.892	7.8	---	---	203.230
1976	1.305	0.6	207.880	91.2	18.633	8.2	---	---	227.818
1977	1.216	0.5	217.184	91.0	20.401	8.5	---	---	238.801
1978	1.265	0.5	232.827	90.8	22.309	8.7	---	---	256.401
1979	1.166	0.4	236.670	90.7	23.236	8.9	---	---	261.072
1980	1.144	0.5	229.054	90.9	21.741	8.6	---	---	251.939
1981	1.126	0.5	229.808	90.8	22.098	8.7	---	---	253.032
1982	1.188	0.5	224.180	91.0	20.921	8.5	---	---	246.289
1983	1.232	0.5	240.302	90.9	22.669	8.6	---	---	264.203
1984	1.111	0.4	256.158	90.8	24.053	8.5	696	0.3%	282.018
1985	1.421	0.5	258.910	90.9	23.729	8.3	750	0.3	284.810
1986	1.445	0.5	274.559	90.9	25.134	8.3	857	0.3	301.995
1987	1.489	0.5	289.388	90.8	26.768	8.4	850	0.3	318.495
1988	1.353	0.4	299.286	90.9	27.770	8.4	925	0.3	329.334
1989	1.651	.05	306.127	91.0	27.671	8.2	854	.03	336.303

Average Basis Weight — Pounds Per Thousand Square Feet



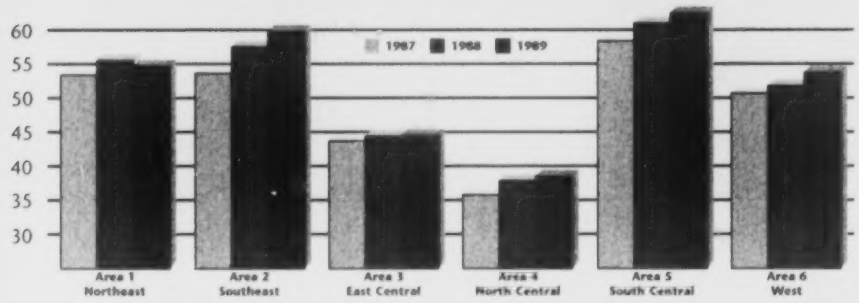
Average Corrugator Plant Production — Millions of Square Feet



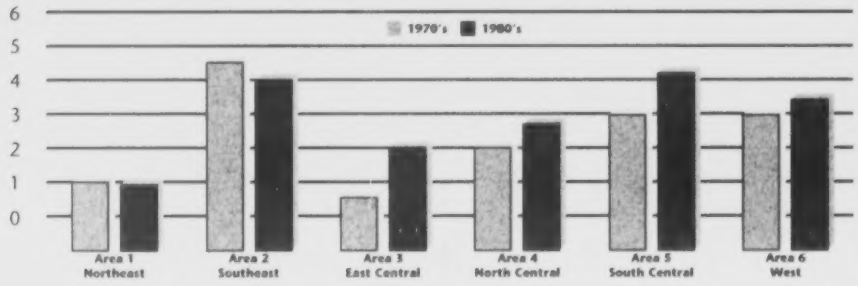
Billions of Square Feet

Industry Shipments by Area

Shipments Billions of Square Feet



Compounded Annual Growth Rate Percent



YEAR	AREA 1 Northeast Total	% of Industry	AREA 2 Southeast Total	% of Industry	AREA 3 East Central Total	% of Industry	AREA 4 North Central Total	% of Industry	AREA 5 South Central Total	% of Industry	AREA 6 West Total	% of Industry
1940	11.602	32.1%	1.545	4.3%	11.044	30.6%	5.729	15.9%	3.882	10.7%	2.309	6.4%
1950	23.735	30.3	6.282	8.0	19.946	25.4	11.780	15.0	9.695	12.4	6.955	8.9
1960	29.704	27.3	11.044	10.1	23.317	21.4	15.749	14.5	14.946	13.7	14.172	13.0
1965	37.710	25.4	17.419	11.7	30.938	20.9	21.843	14.7	20.663	13.9	19.898	13.4
1966	39.777	24.8	19.314	12.0	32.882	20.5	22.862	14.3	23.031	14.3	22.586	14.1
1967	39.949	24.6	20.483	12.6	32.363	19.9	22.703	13.9	24.223	14.9	22.875	14.1
1968	42.162	24.3	22.278	12.8	34.430	19.8	24.016	13.8	26.347	15.2	24.581	14.1
1969	44.378	23.9	24.707	13.3	36.320	19.5	25.186	13.6	28.358	15.3	26.703	14.4
1970	44.038	23.8	25.040	13.6	35.194	19.0	24.820	13.4	28.998	15.7	26.774	14.5
1971	44.813	23.4	27.163	14.2	36.374	18.9	25.877	13.5	30.248	15.8	27.356	14.2
1972	48.382	22.8	30.957	14.6	40.248	19.0	28.513	13.5	33.788	15.9	30.038	14.2
1973	51.019	22.4	33.561	14.7	42.689	18.7	30.760	13.5	37.083	16.3	32.941	14.4
1974	48.537	22.5	31.599	14.6	39.146	18.1	28.944	13.4	35.099	16.2	32.747	15.2
1975	42.183	21.7	29.403	15.1	34.134	17.6	25.541	13.2	32.092	16.5	30.976	15.9
1976	46.697	21.6	32.809	15.2	38.326	17.7	28.471	13.2	36.220	16.7	33.848	15.6
1977	48.301	21.3	35.187	15.5	39.845	17.5	29.611	13.0	38.646	17.0	35.609	15.7
1978	52.275	21.4	38.796	15.9	41.433	17.0	31.368	12.9	41.753	17.1	38.273	15.7
1979	53.322	21.3	41.586	16.6	41.071	16.4	31.819	12.7	43.175	17.2	39.670	15.8
1980	50.551	20.9	41.284	17.1	36.912	15.3	30.147	12.5	42.867	17.8	39.616	16.4
1981	50.100	20.4	41.651	16.9	37.618	15.3	30.032	12.2	45.169	18.3	41.582	16.9
1982	48.006	20.4	39.744	16.9	34.263	14.6	28.795	12.2	44.408	18.9	39.969	17.0
1983	50.263	19.9	44.108	17.5	37.194	14.7	31.249	12.4	47.442	18.8	42.283	16.7
1984	51.094	19.1	47.475	17.7	40.285	15.1	32.794	12.3	51.378	19.2	44.521	16.6
1985	50.078	18.7	47.958	17.9	40.281	15.1	32.731	12.2	52.110	19.5	44.295	16.6
1986	52.303	18.4	51.605	18.2	41.927	14.8	34.510	12.1	55.308	19.5	48.268	17.0
1987	54.339	18.2	54.777	18.4	43.724	14.7	35.708	12.0	58.544	19.7	50.736	17.0
1988	55.571	18.0	57.527	18.6	44.487	14.4	37.882	12.3	61.052	19.8	51.990	16.9
1989	54.992	17.5	59.151	18.9	44.496	14.2	38.472	12.3	62.567	20.0	53.720	17.1

Area Shipments

Millions of Square Feet

	AREA 1 - Northeast			AREA 2 - Southeast			AREA 3 - East Central		
By Quarter	1987	1988	1989	1987	1988	1989	1987	1988	1989
1st Quarter	13,346.3	13,952.9	13,782.8	13,586.0	14,364.8	15,121.2	10,951.1	11,426.3	11,323.9
2nd Quarter	13,496.7	13,798.1	14,073.6	13,916.2	14,621.1	15,269.5	10,882.4	11,001.8	11,291.9
3rd Quarter	13,910.3	14,043.0	13,557.1	13,522.2	14,087.0	14,177.0	11,170.4	11,159.9	11,090.5
4th Quarter	13,586.1	13,776.9	13,578.1	13,752.6	14,453.8	14,583.7	10,719.6	10,899.1	10,789.5
By Month									
January	4,417.5	4,451.2	4,651.9	4,719.3	4,630.0	5,231.2	3,716.8	3,695.4	3,878.6
February	4,251.9	4,536.3	4,271.8	4,224.9	4,658.5	4,710.9	3,502.9	3,679.4	3,575.1
March	4,677.0	4,964.4	4,859.1	4,641.8	5,076.4	5,179.2	3,731.4	4,051.5	3,870.2
April	4,538.8	4,514.4	4,541.6	4,881.8	4,993.1	5,169.4	3,759.4	3,764.1	3,788.0
May	4,241.0	4,471.0	4,683.5	4,397.4	4,805.8	5,143.8	3,439.5	3,600.0	3,768.4
June	4,716.8	4,812.8	4,848.5	4,636.9	4,822.2	4,956.3	3,683.5	3,637.7	3,735.4
July	4,448.7	4,234.2	4,077.0	4,542.0	4,453.4	4,542.4	3,662.3	3,447.5	3,482.5
August	4,627.0	5,002.4	4,962.9	4,444.6	4,937.2	5,026.8	3,727.8	3,901.9	3,970.8
September	4,834.6	4,806.4	4,517.3	4,535.5	4,696.4	4,607.7	3,780.3	3,810.4	3,637.2
October	5,056.3	5,007.7	5,061.0	4,994.6	5,126.8	5,392.5	4,078.4	4,042.0	4,098.1
November	4,319.5	4,529.9	4,544.5	4,370.8	4,797.3	4,801.2	3,352.9	3,575.8	3,555.8
December	4,210.3	4,239.4	3,972.6	4,387.2	4,529.7	4,389.9	3,288.3	3,281.4	3,135.6
Total	54,339.4	55,571.0	54,991.6	54,777.0	57,526.7	59,151.4	43,723.5	44,487.1	44,495.8
By Average Week									
January	1,051.8	1,112.8	1,107.6	1,123.6	1,157.5	1,245.5	885.0	923.8	923.5
February	1,063.0	1,080.1	1,068.0	1,056.2	1,109.2	1,177.7	875.7	876.1	893.8
March	1,063.0	1,079.4	1,104.3	1,055.0	1,103.6	1,177.1	848.0	880.8	879.6
April	1,080.7	1,128.6	1,135.4	1,162.3	1,248.3	1,292.4	895.1	941.0	947.0
May	1,060.3	1,064.5	1,064.4	1,099.4	1,144.2	1,169.0	860.0	857.1	856.5
June	1,072.0	1,093.8	1,101.9	1,053.8	1,096.0	1,126.4	837.2	826.7	849.0
July	1,011.1	1,058.5	1,072.9	1,032.3	1,113.3	1,195.4	832.3	861.9	916.4
August	1,101.7	1,087.5	1,078.9	1,058.2	1,073.3	1,092.8	887.6	848.2	863.2
September	1,151.1	1,144.4	1,129.3	1,079.9	1,118.2	1,151.9	900.1	907.2	909.3
October	1,149.2	1,192.3	1,150.2	1,135.1	1,220.7	1,225.6	926.9	962.3	931.4
November	1,136.7	1,132.5	1,136.1	1,150.2	1,199.3	1,200.3	882.3	893.9	889.0
December	1,052.6	1,115.6	993.2	1,096.8	1,192.0	1,097.5	822.1	863.5	783.9
Average	1,082.5	1,107.0	1,095.5	1,091.2	1,145.9	1,178.3	871.0	886.2	886.4

Millions of Square Feet

Area Shipments

	AREA 4 - North Central			AREA 5 - South Central			AREA 6 - West		
By Quarter	1987	1988	1989	1987	1988	1989	1987	1988	1989
1st Quarter	8,564.4	9,560.3	9,494.1	14,229.1	15,420.9	15,378.6	11,711.3	12,402.0	12,688.8
2nd Quarter	8,801.3	9,343.3	9,631.2	14,504.0	15,103.6	15,769.3	13,189.8	13,220.8	14,108.9
3rd Quarter	9,354.5	9,608.1	9,747.9	14,974.4	15,411.0	15,588.4	13,443.2	13,495.3	13,770.6
4th Quarter	8,988.2	9,370.2	9,599.2	14,835.5	15,116.9	15,830.4	12,391.8	12,871.4	13,151.4
By Month									
January	2,942.2	3,085.5	3,262.3	4,913.1	5,034.6	5,291.4	3,996.4	4,064.5	4,284.7
February	2,723.7	3,082.1	2,975.0	4,463.8	4,965.9	4,837.3	3,664.8	3,916.3	3,900.3
March	2,898.5	3,392.7	3,256.7	4,852.2	5,420.3	5,249.9	4,050.1	4,421.3	4,503.7
April	3,008.0	3,120.2	3,142.2	4,929.4	5,091.9	5,195.7	4,513.5	4,648.5	4,620.7
May	2,757.4	3,022.5	3,213.6	4,654.8	4,919.1	5,344.6	4,179.7	4,218.0	4,780.0
June	3,035.9	3,200.6	3,275.4	4,919.8	5,092.6	5,228.9	4,496.6	4,354.3	4,708.2
July	3,095.3	2,971.7	3,022.4	4,998.1	4,970.7	4,913.6	4,672.3	4,482.9	4,615.9
August	3,030.8	3,332.8	3,555.9	4,900.2	5,352.5	5,509.2	4,327.7	4,564.0	4,811.1
September	3,228.4	3,303.7	3,169.7	5,076.1	5,087.8	5,165.5	4,443.3	4,468.3	4,343.7
October	3,330.4	3,444.7	3,609.3	5,507.8	5,461.8	5,835.7	4,788.0	4,807.1	4,985.0
November	2,860.3	3,102.3	3,133.7	4,675.5	4,921.1	5,153.9	3,777.8	4,120.6	4,159.8
December	2,797.5	2,823.2	2,856.2	4,652.2	4,733.9	4,840.8	3,826.0	3,943.7	4,006.6
Total	35,708.4	37,882.0	38,472.4	58,543.1	61,052.3	62,566.7	50,736.1	51,989.5	53,719.7
By Average Week									
January	700.5	771.4	776.7	1,169.8	1,258.7	1,259.9	951.5	1,016.1	1,020.2
February	680.9	733.8	743.8	1,116.0	1,182.4	1,209.3	916.2	932.4	975.1
March	658.8	737.5	740.2	1,102.8	1,178.3	1,193.2	920.5	961.1	1,023.6
April	716.2	780.1	785.6	1,173.7	1,273.0	1,298.9	1,074.6	1,162.1	1,155.2
May	689.4	719.6	730.3	1,163.7	1,171.2	1,214.7	1,044.9	1,004.3	1,086.4
June	690.0	727.4	744.4	1,118.1	1,157.4	1,188.4	1,022.0	989.6	1,070.0
July	703.5	742.9	795.4	1,135.9	1,242.7	1,293.1	1,061.9	1,120.7	1,214.7
August	721.6	724.5	773.0	1,166.7	1,163.6	1,197.7	1,030.4	992.2	1,045.9
September	768.7	786.6	792.4	1,208.6	1,211.4	1,291.4	1,057.9	1,059.1	1,085.9
October	756.9	820.2	820.3	1,251.8	1,300.4	1,326.3	1,088.2	1,144.6	1,133.0
November	752.7	775.6	783.4	1,230.4	1,230.3	1,288.5	994.2	1,030.1	1,040.0
December	699.4	742.9	714.0	1,163.1	1,245.8	1,210.2	956.5	1,037.8	1,001.6
Average	711.3	754.6	766.4	1,166.2	1,216.2	1,246.3	1,010.7	1,035.6	1,070.1

Containerboard Production & Consumption

Thousands of Tons

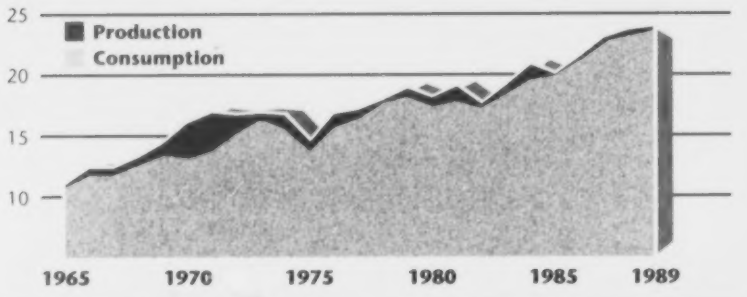
Production for Domestic Use

YEAR	TOTAL	LINERBOARD			CORRUGATING MEDIUM			Total Chip & Filler Boards
		Kraft	Recycled	Total	Semi-chemical & Kraft	Recycled	Total	
1940	3,147.6	1,169.5	796.4	1,965.9	611.4	292.0	903.4	278.3
1950	5,692.6	2,787.2	921.8	3,709.0	945.6	724.4	1,670.0	313.6
1960	8,186.6	4,731.2	743.6	5,474.8	1,788.9	672.1	2,461.0	250.8
1965	11,199.1	6,698.1	782.5	7,480.6	2,638.2	800.0	3,438.2	280.3
1966	12,459.6	7,550.2	797.1	8,347.3	2,909.8	890.0	3,799.8	312.5
1967	12,248.6	7,693.3	522.3	8,215.6	2,982.1	761.4	3,743.5	289.5
1968	13,388.4	8,612.2	431.5	9,043.7	3,371.2	690.7	4,061.9	282.8
1969	14,396.4	9,345.3	347.1	9,692.4	3,617.0	778.4	4,395.4	308.6
1970	13,964.3	9,133.4	269.7	9,403.1	3,404.7	859.3	4,264.0	297.2
1971	14,353.0	9,249.1	281.7	9,530.8	3,580.2	939.5	4,519.7	302.5
1972	16,019.0	10,577.6	278.9	10,856.5	3,874.2	972.3	4,846.5	315.9
1973	16,928.1	11,066.9	289.1	11,355.9	4,126.5	1,128.5	5,255.0	317.1
1974	16,767.0	10,838.4	467.1	11,305.4	4,010.3	1,169.0	5,179.2	282.3
1975	14,586.2	9,646.9	207.3	9,854.2	3,579.4	870.0	4,449.3	282.6
1976	16,700.2	11,093.2	282.7	11,375.9	3,986.5	1,075.1	5,061.5	262.9
1977	17,167.3	11,354.4	341.3	11,695.7	4,128.2	1,079.7	5,207.9	263.7
1978	17,908.2	11,877.2	256.4	12,133.7	4,305.3	1,197.7	5,503.1	271.5
1979	18,824.8	12,417.3	402.3	12,819.6	4,573.6	1,202.3	5,775.9	229.3
1980	18,070.2	11,948.6	444.5	12,393.1	4,398.5	1,047.1	5,445.6	231.5
1981	19,040.0	12,754.3	324.2	13,078.5	4,561.2	1,140.9	5,702.1	259.5
1982	17,507.5	11,656.5	279.0	11,935.5	4,202.5	1,139.3	5,341.8	230.2
1983	19,173.0	12,835.6	289.1	13,124.7	4,532.7	1,305.4	5,838.1	210.2
1984	20,855.1	14,068.8	203.7	14,272.5	5,018.9	1,385.4	6,404.3	178.4
1985	20,042.2	13,467.1	285.8	13,752.9	4,896.6	1,358.8	6,255.4	33.9
1986	21,426.4	14,288.6	420.3	14,708.9	5,160.8	1,525.8	6,686.6	30.9
1987	23,027.8	15,497.9	478.3	15,976.2	5,407.0	1,607.1	7,014.1	37.5
1988	23,563.2	15,770.6	406.7	16,177.3	5,527.7	1,823.2	7,350.9	35.0
1989*	23,741.6	16,003.8	388.2	16,392.0	5,544.6	1,790.7	7,335.3	14.3

NOTE: The apparent disparity between containerboard production, consumption and inventories is attributable to two factors: (1) about 4% of production is diverted to other uses such as tube/stock, composite cans/drums; (2) production includes container chip which is not consumed on solid fibre pasters. * Preliminary Source: American Paper Institute, Inc.

Production vs Consumption

Millions of Tons



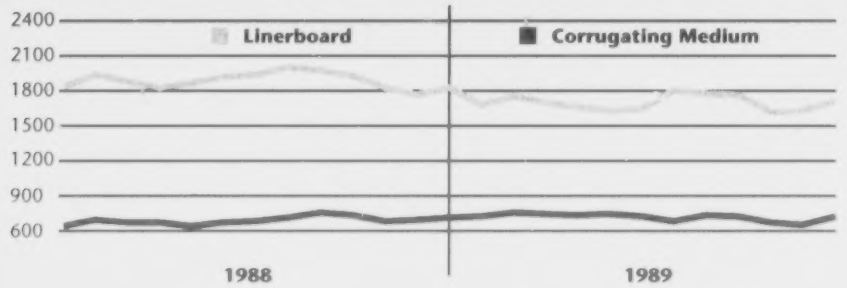
Consumption by Corrugator Plants

YEAR	TOTAL	LINERBOARD	CORRUGATING MEDIUM	FILLER BOARD
1940	3,113.7	1,985.3	865.2	263.2
1950	5,870.8	3,830.7	1,739.0	301.1
1960	7,901.3	5,361.6	2,422.2	117.5
1965	10,735.7	7,315.8	3,327.5	92.4
1966	11,707.9	7,996.5	3,592.1	119.3
1967	11,752.0	8,022.3	3,626.7	103.0
1968	12,616.8	8,625.9	3,885.9	105.0
1969	13,487.2	9,229.2	4,166.3	91.7
1970	13,267.5	9,079.0	4,107.1	81.4
1971	13,806.8	9,465.2	4,273.4	68.2
1972	15,189.4	10,428.8	4,697.7	62.9
1973	16,446.4	11,315.1	5,059.7	71.6
1974	15,428.8	10,621.2	4,746.2	61.4
1975	13,975.4	9,609.1	4,320.2	46.1
1976	15,677.1	10,782.0	4,844.4	50.7
1977	16,464.1	11,318.3	5,102.5	43.3
1978	17,708.7	12,168.4	5,494.7	45.6
1979	18,159.7	12,456.0	5,654.5	49.2
1980	17,489.5	12,018.5	5,427.4	43.6
1981	17,821.2	12,262.4	5,530.4	28.4
1982	17,117.9	11,751.3	5,337.4	29.2
1983	18,395.7	12,594.4	5,767.7	33.6
1984	19,672.7	13,460.9	6,176.6	35.2
1985	19,902.5	13,604.7	6,267.3	30.5
1986	21,134.3	14,414.0	6,689.3	31.0
1987	22,393.4	15,276.0	7,085.9	31.5
1988	23,103.3	15,751.0	7,317.3	35.0
1989	23,568.5	16,036.7	7,487.7	44.2

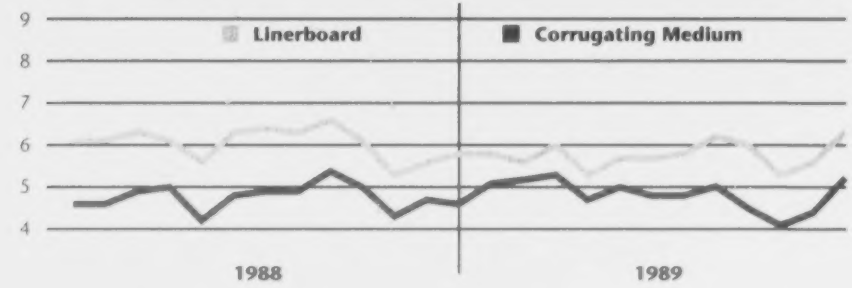
Thousands of Tons

Containerboard Inventory

Tonnage



Weeks of Suppply



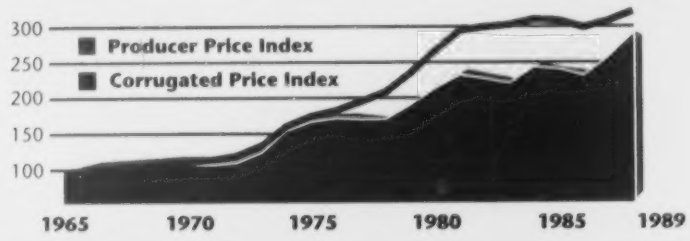
1988	Dec. 31	Jan. 31	Feb. 28	Mar. 31	Apr. 30	May 31	June 30	July 31	Aug. 31	Sept. 30	Oct. 31	Nov. 30	Dec. 31
Linerboard:	1987												
Corrugator Plants	1,715.3	1,829.2	1,770.1	1,711.5	1,757.1	1,771.0	1,790.8	1,868.9	1,837.9	1,790.5	1,693.7	1,636.5	1,680.7
Mills	118.4	135.2	126.6	110.9	131.4	141.4	132.9	131.6	140.0	148.3	133.6	150.8	160.8
Total	1,833.7	1,964.4	1,896.7	1,822.4	1,888.5	1,912.4	1,923.7	2,000.5	1,977.9	1,938.8	1,827.3	1,787.3	1,841.5
Weeks of Supply	6.1	6.1	6.3	6.1	5.6	6.3	6.4	6.3	6.6	6.1	5.3	5.6	5.8
Corrugating Medium:													
Corrugator Plants	616.7	660.0	653.5	658.1	632.0	645.6	664.0	685.6	719.9	701.0	655.2	662.4	667.1
Mills	31.3	33.8	29.2	25.9	24.7	28.7	21.4	30.4	26.5	28.4	33.1	32.1	37.4
Total	648.0	693.8	682.7	684.0	656.7	674.3	685.4	716.0	746.4	729.4	688.3	694.5	704.5
Weeks of Supply	4.6	4.6	4.9	5.0	4.2	4.8	4.9	4.9	5.4	5.0	4.3	4.7	4.6
Filler Board:	4.7	4.6	4.2	5.8	5.3	7.9	8.1	6.8	7.2	4.4	3.1	4.7	6.8
Total Containerboard:	2,486.4	2,662.8	2,583.6	2,512.2	2,550.5	2,594.6	2,617.2	2,723.3	2,731.5	2,672.6	2,518.7	2,486.5	2,552.9
Weeks of Supply:													
Corrugator Plants	5.3	5.3	5.5	5.4	4.8	5.5	5.6	5.5	5.8	5.4	4.7	4.9	5.0
Mills	.4	.4	.3	.3	.3	.4	.4	.4	.4	.4	.3	.4	.4
Total	5.7	5.7	5.8	5.7	5.1	5.9	6.0	5.9	6.2	5.8	5.0	5.3	5.4
1989													
Linerboard:	1988												
Corrugator Plants	1,680.7	1,765.5	1,706.7	1,682.2	1,679.6	1,632.2	1,653.2	1,808.4	1,790.5	1,774.3	1,629.5	1,622.5	1,710.6
Mills	160.8	169.8	147.7	133.6	129.8	135.3	125.8	141.6	141.6	175.3	165.8	161.1	145.3
Total	1,841.5	1,935.3	1,854.4	1,815.8	1,809.4	1,767.5	1,779.0	1,950.0	1,932.1	1,949.6	1,795.3	1,783.6	1,855.9
Weeks of Supply	5.8	5.9	6.0	5.9	5.3	5.7	5.7	5.8	6.2	6.0	5.3	5.6	6.3
Corrugating Medium:													
Corrugator Plants	667.1	728.6	709.4	707.6	709.3	685.9	653.6	694.2	681.9	632.7	615.6	618.2	680.7
Mills	37.4	38.4	43.0	40.6	41.2	37.8	38.4	42.3	45.9	54.9	45.4	44.2	44.8
Total	704.5	767.0	752.4	748.2	750.5	723.7	692.0	736.5	727.8	687.6	661.0	662.4	725.6
Weeks of Supply	4.6	5.1	5.2	5.3	4.7	5.0	4.8	4.8	5.0	4.5	4.1	4.4	5.2
Filler Board:	6.8	4.6	4.9	4.6	4.3	3.3	3.6	2.8	4.1	5.4	3.6	3.4	7.3
Total Containerboard:	2,552.9	2,707.2	2,611.7	2,568.6	2,564.2	2,494.5	2,474.6	2,689.3	2,664.0	2,642.6	2,459.9	2,449.4	2,588.8
Weeks of Supply:													
Corrugator Plants	5.0	5.2	5.4	5.3	4.7	5.1	5.1	5.1	5.4	5.0	4.5	4.8	5.5
Mills	.4	.4	.4	.4	.4	.4	.4	.4	.4	.5	.4	.4	.4
Total	5.4	5.6	5.8	5.7	5.1	5.5	5.5	5.5	5.8	5.5	4.9	5.2	5.9

Corrugated Price & Producer Price Index

1967 = 100

Year	1st QTR	2nd QTR	3rd QTR	4th QTR	Year	B.L.S. P.P.I.
1940	39.2	39.1	39.0	38.9	39.1	40.5
1950	74.1	73.5	76.8	91.2	79.3	81.8
1960	98.8	98.2	96.3	97.0	97.4	94.9
1965	93.8	93.9	92.8	96.3	94.3	96.6
1966	96.7	98.2	97.8	100.4	98.3	99.8
1967	100.7	100.2	98.6	100.4	100.0	100.0
1968	101.9	101.0	99.3	102.0	101.1	102.5
1969	102.4	102.9	102.3	105.1	103.3	106.5
1970	105.3	104.9	103.8	105.0	104.8	110.4
1971	104.4	104.7	103.4	104.1	104.2	113.9
1972	104.2	106.7	107.0	110.8	107.4	119.1
1973	114.1	120.2	124.7	129.8	122.5	134.7
1974	135.4	147.7	161.0	170.6	153.2	160.1
1975	168.1	166.0	163.7	165.0	165.5	174.9
1976	169.0	170.9	168.9	169.6	169.6	183.0
1977	167.4	168.2	168.6	168.4	168.2	194.2
1978	164.7	165.7	166.9	174.5	168.1	209.3
1979	178.6	187.3	190.3	199.6	188.9	235.6
1980	209.7	214.3	212.9	214.4	212.8	268.8
1981	222.8	232.5	232.4	232.6	230.0	293.4
1982	229.4	229.6	223.2	221.3	225.9	299.4
1983	217.3	218.6	217.2	224.8	219.5	303.1
1984	230.0	242.6	242.6	254.1	242.3	310.3
1985	254.0	246.5	231.5	227.2	239.7	308.8
1986	225.1	226.6	229.6	236.0	229.4	229.8
1987	245.4	254.8	255.6	267.4	255.9	307.7
1988	268.9	279.9	281.4	283.6	278.4	320.1
1989	283.9	286.8	283.7	282.4	284.2	335.9

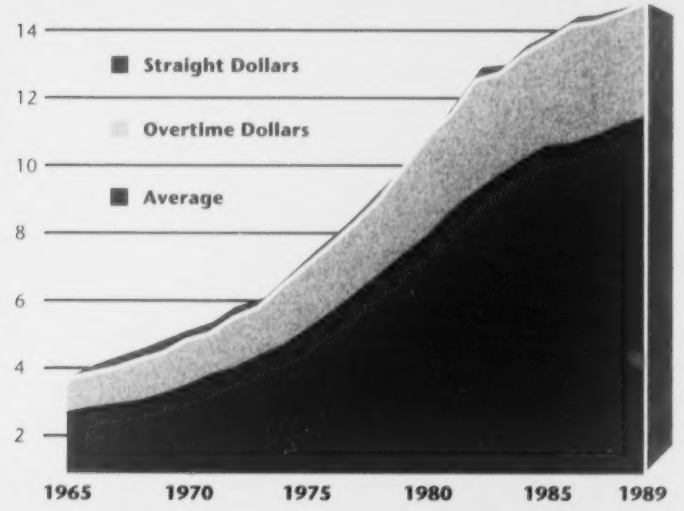
Corrugated Price Index vs Producer Price Index



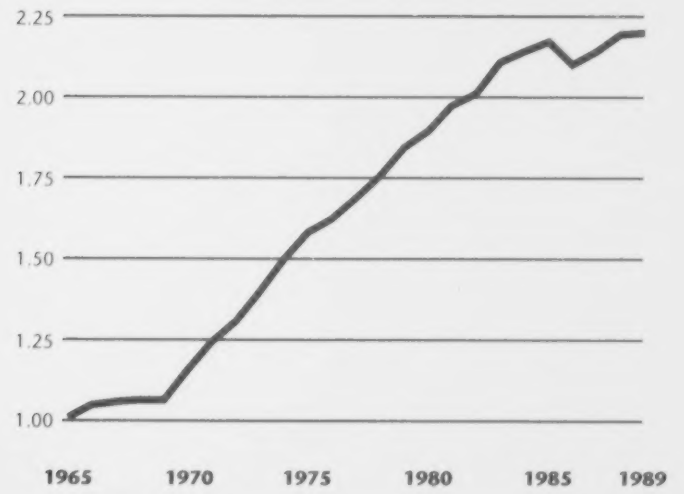
Corrugated Price Index by Area	1987	1988	1989
Area 1 - Northeast			
1st Quarter	242.3	264.0	277.4
2nd Quarter	250.5	271.9	276.0
3rd Quarter	252.5	274.6	275.8
4th Quarter	263.3	276.1	274.9
YEAR	252.2	271.7	276.0
Area 2 - Southeast			
1st Quarter	249.2	275.1	288.9
2nd Quarter	258.6	284.0	290.4
3rd Quarter	257.4	282.7	284.8
4th Quarter	274.0	289.6	288.9
YEAR	259.8	282.9	288.2
Area 3 - East Central			
1st Quarter	239.9	261.9	280.2
2nd Quarter	246.6	272.8	279.4
3rd Quarter	247.9	276.2	277.5
4th Quarter	259.2	277.7	277.2
YEAR	248.4	272.1	278.6
Area 4 - North Central			
1st Quarter	253.0	274.8	291.7
2nd Quarter	259.7	286.2	293.3
3rd Quarter	260.9	289.3	289.8
4th Quarter	273.2	289.5	286.0
YEAR	261.8	284.9	290.2
Area 5 - South Central			
1st Quarter	235.0	258.5	273.1
2nd Quarter	241.5	268.8	274.6
3rd Quarter	242.1	269.5	270.4
4th Quarter	255.7	272.5	269.6
YEAR	243.7	267.3	271.9
Area 6 - West			
1st Quarter	260.3	286.1	301.0
2nd Quarter	280.5	304.5	317.2
3rd Quarter	282.2	306.5	314.5
4th Quarter	287.2	305.0	308.0
YEAR	278.0	300.8	310.3

Hours, Earnings & Productivity

Hourly Earnings — Dollars



Productivity — M.S.F. per Hour



INDUSTRY AVERAGES

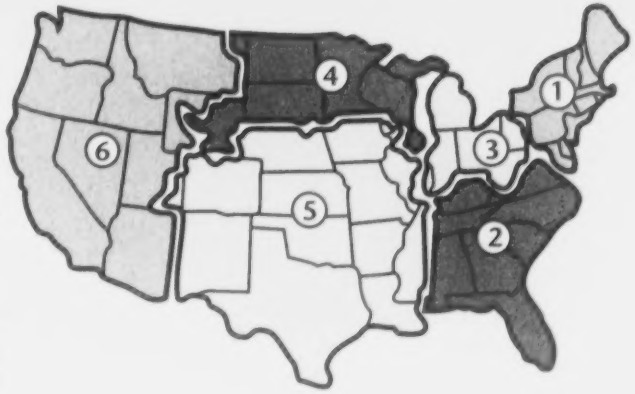
YEAR	Total No. of Employees	Hours per Week per Employee	Hourly Earnings Total	Hourly Earnings Regular	Hourly Earnings Overtime	Earnings per Week per Employee	M Sq.Ft. Shipments per Wk. per Employee	M Sq. Ft. per Hour	Payroll per M Sq. Ft. All Plants
1943	32,400	43.9	$ .788	$ .715	$ 1.130	$ 34.54	28.3	.65	$ 1.22
1950	39,500	43.6	1.410	1.316	2.005	61.43	36.7	.84	1.67
1960	54,600	40.9	2.324	2.224	3.238	95.21	38.7	.95	2.46
1965	66,100	43.3	2.750	2.613	3.661	119.00	43.7	1.01	2.72
1966	70,300	42.8	2.850	2.699	3.819	121.98	44.9	1.05	2.71
1967	69,900	41.4	2.995	2.861	3.995	124.13	43.8	1.06	2.84
1968	74,000	42.0	3.157	2.986	4.245	132.62	44.8	1.07	2.96
1969	76,900	42.2	3.330	3.159	4.467	140.48	45.3	1.07	3.10
1970	74,100	40.1	3.551	3.415	4.811	142.39	46.6	1.16	3.06
1971	73,400	40.9	3.833	3.684	5.083	156.75	50.5	1.24	3.10
1972	74,300	41.5	4.132	3.944	5.508	171.57	54.9	1.32	3.13
1973	77,400	40.8	4.404	4.214	5.855	179.59	57.3	1.40	3.13
1974	71,900	38.3	4.725	4.566	6.428	181.02	57.4	1.50	3.16
1975	60,500	37.9	5.261	5.075	7.156	199.49	59.8	1.58	3.33
1976	65,200	38.9	5.726	5.513	7.683	222.59	63.3	1.63	3.52
1977	65,100	39.5	6.265	6.030	8.384	247.59	66.5	1.68	3.72
1978	67,300	39.6	6.820	6.541	9.057	270.39	69.8	1.76	3.88
1979	67,500	39.2	7.421	7.143	9.947	291.26	74.0	1.89	3.94
1980	63,600	38.2	7.968	7.697	10.823	304.16	72.4	1.90	4.20
1981	63,100	37.3	8.747	8.488	11.518	327.62	73.6	1.97	4.45
1982	59,100	36.8	9.340	9.081	12.537	343.78	74.4	2.02	4.62
1983	59,600	37.8	9.803	9.472	12.777	370.69	79.9	2.11	4.84
1984	61,500	38.5	10.278	9.913	13.320	395.78	82.3	2.14	4.81
1985	63,900	37.8	10.654	10.291	13.740	402.31	81.9	2.17	4.91
1986	65,900	39.3	10.683	10.251	14.142	420.24	82.7	2.10	5.08
1987	69,500	39.3	10.981	10.546	14.269	431.12	84.0	2.14	5.13
1988	71,400	39.2	11.117	10.674	14.523	436.01	85.8	2.19	5.08
1989	72,200	39.0	11.373	10.924	14.880	443.86	85.8	2.20	5.17

The reports received from the members are advanced to represent the entire industry. The employees represented are production workers, piece workers, watchmen, engineers, working foremen, maintenance workers, etc. The total does not include supervisors, executives, clerical and office employees. The footage includes the total shipments of all corrugator plants but not sheet plants; however, sheet plant labor costs are included. The above data covers only the direct payroll including pay for hours not worked. It does not include cost of pensions, medical insurance, etc.

Glossary

The Fibre Box Association divides The United States into six Areas for statistical purposes.

Area 1 - Northeast
Area 2 - Southeast
Area 3 - East Central
Area 4 - North Central
Area 5 - South Central
Area 6 - West



Average Week: An average work week for statistical purposes consists of five days, less holidays.

Basis Weight: The average weight of combined corrugated board per thousand square feet is derived by dividing containerboard consumption for corrugated board by corrugator production.

Containerboard: Paperboard components from which corrugated and solid fibreboard are manufactured.

Container Chip and Filler Board: Paperboard manufactured as a filler for solid fibre and paperboard for conversion into either single or multi-ply components for interior packing in corrugated or solid fibre boxes.

Corrugator: A corrugator plant makes corrugated board on one or more corrugating machines, and may make boxes or other finished products from the board.

Corrugated Price Index: The Corrugated Price Index is developed by dividing the total dollars of sales of all corrugated products by the square footage of these products, based on member company data only. The price per thousand square feet of all corrugated products shipped by members is then converted to an index, 1967 = 100.

Corrugating Medium: Paperboard used as the fluted member of a corrugated product.

Corrugated Production: The actual total square footage produced on corrugators during the year. It differs from shipments in that production includes waste and trim before fabrication.

Filler Board: See Container Chip and Filler Board.

Industry: Any statistic termed "Industry," such as "Industry Shipments," is based upon information received from all manufacturers, both members and non-members of the Association.

Kraft Linerboard: Fiber furnish contains not less than eighty percent virgin sulfate woodpulp, produced by the kraft (sulfate) process.

Linerboard: Paperboard used as a facing on corrugated or solid fibre products.

Number of Plants: The data indicates the number of plants in each category which were in operation during all or any part of the year. This is not necessarily the number in operation at year-end.

Producer Price Index: The Bureau of Labor Statistics' Producer Price Index represents the wholesale prices of about 2,000 commodities, 1967 = 100.

Recycled Corrugating Material: Fiber furnish contains less than seventy-five percent virgin woodpulp.

Recycled Linerboard: Fiber furnish contains less than eighty percent virgin sulfate woodpulp.

Seasonally Adjusted Month: Actual shipments are seasonally adjusted using factors based on experience of the latest and preceding years.

Seasonal Adjustment: The adjustment factor is a composite of the seasonal factors and the regression trading day adjustment factors. The adjustment is continually revised; factors used in 1987 and 1988 are not identical to those used in 1989.

Semichemical Corrugating Material: Contains fiber furnish not less than seventy-five percent virgin woodpulp, produced by a semichemical process. Also includes kraft corrugating material in which the fiber furnish is not less than eighty percent virgin woodpulp that is produced by the kraft (sulfate) process.

Sheet Plant: A sheet plant buys corrugated board from a corrugator plant, and makes boxes or other finished products from the board.

Weeks of Supply: Obtained by dividing inventories by the average weekly usage in fibre box plants during the prior month excluding any holidays.

Members of Fibre Box Association

Acorn Corrugated Box Company
Advance Packaging Corporation
AIM Corrugated Container Corporation
Akers Packaging Service, Inc.
  Metro Containers, Inc.
Allegheny Container, Corporation
American River Packaging, Inc.
Armor Box Corporation
Arvco Container Corporation
Batavia Containers, Inc.
Bates Container, Inc.
Bates Corrugated Box Corporation
Beacon Container Corporation
Bell Packaging Corporation
Bicknell & Fuller Corr. Container Co.
Boise Cascade Corporation
Boxmakers, Inc.
  Indiana Boxmakers, Inc.
Capital City Container Corporation
Carlisle Container Company
Castle Rock Container Corporation
Central Container Corporation
Chesapeake Corporation
  Color-Box, Inc.
  Chesapeake Displays, Inc.
Colonial Packaging Corporation
Commander Packaging Corporation
  Commander Packaging West, Inc.
  Kankakee Container Company
  Packaging Dimensions
Consolidated Packaging Corporation
Corrugated Container Corporation
Corrugated Paper Corporation
Corrugated Paper Products, Inc.
Corrugated Supplies Corporation
Delta Container Corporation
DeLine Box Company
Design Packaging, Inc.
Drake Container Corporation
Dusobox Corporation
Eastern Container Corporation
Elgin Corrugated Box Company
Empire Container Corporation
H. Field & Sons, Inc.
Flint Boxmakers, Inc.
  Delta Containers
Gaylord Container Corporation
Georgia-Pacific Corporation
Great Northern Nekoosa Corporation
  J & J Corrugated Box Corporation
  Nekoosa Packaging Corporation
Green Bay Packaging, Inc.
Ideal Box Company
International Paper Company
Interstate Resources, Inc.
Jamestown Container Corporation
  Great Lakes Container Corporation
  Ontario Containers Division
Jefferson Smurfit Corporation
  Container Corporation of America
  Eastern Tri-Pack Corporation
  Tri-Pack Corporation
  Valley Packaging
K & H Corrugated Case Corporation
  K & H Containers, Inc.
  Vermont Container Corporation
Kendal Container Corporation
Key Container Corporation
Keystone Container Corporation
Lawless Container Corporation
Lawrence Paper Company
  Jayhawk Boxes, Inc.
  Ozark Corrugated Box Company
Lemac Packaging, Inc.
Liberty Carton Company
Lone Star Container Corporation
Longview Fibre Company
Love Box Company, Inc.
  Lewisburg Container Company
Loy-Lange Box Company
  Heartland Box Company
Mack-Chicago Corporation
MacMillan Bloedel Containers
Mann Kraft Corporation
Massillon Container Company
  Mount Eaton Packaging Company
Mead Containerboard Division
Menasha Corporation
Micon/Division of Metal Industries, Inc.
Midland Container Corporation (St. Louis)
Midland Container Corporation (Racine)
Miller Container Corporation
Monarch Box & Paper Company
Nelson Container Corporation
Nivison-Weiskopf Company
Northeast Container Corporation
Northwest Packaging, Inc.
Packaging Corporation of America
  Ar-Tech Packaging
  Dura-Box Company
  Packaging Company of CA
  Pakon/Packaging of CA
Packaging Services, Inc.
Page Packaging Corporation
Paragon Packaging Products, Inc.
Pennsylvania Container Corporation
RDA Container Corporation
Republic Container Corporation
Republic Paperboard Company
Richmond Corrugated Box Company
  Wilmington Box Company
Rock-Tenn Company
  Wiregrass Container, Inc.
Royal Continental Box Company
St. Joe Container Company
Schiffenhaus Industries, Inc.
  Oneida Container
  Schiffenhaus Packaging Corporation
Schroeder Companies
  Iowa Corrugated Packaging
  Nebraska Packaging, Inc.
  Summit Packaging, Inc.
Sebring Container Corporation
Shillington Box Company
Shipping Container Corporation
Stand-Fast Packaging Products, Inc.
Star Corrugated Box Company, Inc.
Stone Container Corporation
  Accurate Corrugated Box
  Cameo Container Corporation
  L & M Corrugated Container
Sumter Packaging Corporation
Sunbelt Packaging Services, Inc.
Sycamore Containers, Inc.
Thacker Container Company
  California Corrugated Industries
Thoroughbred Containers, Inc.
Trent Corporation, The
Triad Packaging, Inc.
  Durham Box Company, Inc.
Triad Packaging Inc. of TN
Union Camp Corporation
Visy Board Packaging, Inc.
  (The Pratt Group)
  Jet Corr., Inc.
  Macon Kraft Laminates
Western Kraft Paper Group
Weston Paper & Manufacturing Co.
  Garner Packaging, Inc.
  Pioneer Container Corporation
Westvaco Corporation
Weyerhaeuser Paper Company
  Tri-Wall Containers, Inc.
Wunderlich Fibre Box Company
York Container Company

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